

U.S. Department of Agriculture Forest Service	1. WORK PROJECT/ACTIVITY <b>Disabled vehicles</b>	2. LOCATION Grand Rapids, MN	3. UNIT NC-4101, 4351
<b>JOB HAZARD ANALYSIS (JHA)</b> References-FSH6709.11 and -12 (Instructions attached)	4. NAME OF ANALYST	5. JOB TITLE	6. DATE PREPARED
7. TASKS/PROCEDURES	8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE	
Disabled vehicles	Injury, acid burns, asphyxiation resulting from:  (1) Jump-starting dead battery – explosion, acid burns.  (2) Injuries resulting from attempting to move stuck or disabled vehicle – flying chains, cables, rolling vehicle  (3) Running engine for warmth when tailpipe blocked –asphyxiation/CO <sub>2</sub> poisoning.  (4) Road hazards associated with disabled vehicle.	(1) Attach jumper cables in proper sequence. Attach negative cable to engine block or frame (ground) rather than negative terminal of dead battery. Wear leather gloves and eye protection when connecting and disconnecting cables. No smoking.  (2) Use suitable chains or cables for towing. Attach securely to frame at both vehicles. Move all persons away from chain/cable when moving. Use professional towing services. Be especially careful when digging out or pushing vehicles. If road conditions are questionable, walk instead of driving last ¼ mile..  (3) Do not operate stuck or stranded vehicles in situations where tailpipe could become blocked (drifting snow), unless absolutely necessary – then check tailpipe frequently and operate vehicle as infrequently as possible. Leave window open partially while engine is on.  (4) Use emergency flashers, flares, or other devices to alert other drivers of hazards.	
10. LINE OFFICER SIGNATURE	11. TITLE	12. DATE	

**JHA Instructions (References-FSH 6709-11 and .12)**

The JHA shall identify the location of the work project or activity, the name of employees(s) writing the JHA, the date(s) of development, and the name of the appropriate line officer approving it. The supervisor acknowledges that employees have read and understand the contents, have received the required training, and are qualified to perform the work project or activity.

**Blocks 1, 2, 3, 4, 5, and 6:** Self-explanatory.

**Block 7:** Identify all tasks and procedures associated with the work project of activity that have potential to cause injury or illness to personnel and damage to property or material. Include emergency evacuation procedures (EEP).

**Block 8:** Identify all known or suspect hazards associated with each respective task/procedure listed in block 7. For example:

- a. Research past accidents/incidents
- b. Research the Health and Safety Code, FSH 6709.11 or other appropriate literature.
- c. Discuss the work project/activity with participant.
- d. Observe the work project/activity.
- e. A combination of the above.

**Block 9:** Identify appropriate actions to reduce or eliminate the hazards identified in block 8. Abatement measures listed below are in the order of the preferred abatement method:

- a. Engineering Controls (the most desirable method of abatement). For example, ergonomically designed tools, equipment, and furniture.
- b. Substitution. For example, switching to high flash point, non-toxic solvents.
- c. Administrative Controls. For example, limiting exposure by reducing the work schedule; establishing appropriate procedures and practices.
- d. PPE (least desirable method of abatement). For example, using hearing protection when working with or close to portable machines (chain saws, rock drills, portable water pumps).
- e. A combination of the above.

**Block 10:** The JHA must be reviewed and approved by a line officer. Attach a copy of the JHA as justification for purchase orders when procuring PPE.

**Blocks 11 and 12:** Self-explanatory.

**Evacuation Instructions (Reference FSH 6709-11)**

Work supervisors and crew members are responsible for developing and discussing field emergency evacuation procedures (EEP) and alternatives in the event a person(s) becomes seriously ill or injured at the worksite.

Be prepared to provide the following information:

- a. Nature of the accident or injury (avoid using the victim’s name).
- b. Type of assistance needed, if any (ground, air, or water evacuation).
- c. Location of accident or injury, best access route into the worksite (road name/number), identifiable ground/air landmarks.
- d. Radio frequency(s).
- e. Contact person.
- f. Local hazards to ground vehicles or aviation.
- g. Weather conditions (wind speed & direction, visibility, temperature).
- h. Topography.
- i. Number of person(s) to be transported.
- j. Estimated weight of passengers for air/water evacuation.

The items listed above serve only as guidelines for the development of emergency evacuation procedures.

**JHA and Emergency Evacuation Procedures Acknowledgment**

We, the undersigned work leader and crew members, acknowledge participation in the development of this JHA (as applicable) and accompanying emergency evacuation procedures. We have thoroughly discussed and understand the provisions of each of these documents:

SIGNATURE	DATE	SIGNATURE	DATE

